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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,116	09/09/2003	Homan B. Kinsley, JR.	013400-199	9227

21839 7590 10/06/2005

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EXAMINER

SINGH, ARTI R

ART UNIT	PAPER NUMBER
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1771

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/657,116

Applicant(s)

KINSLEY,, HOMAN B.

Examiner

Ms. Arti Singh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) \_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-9 and 15-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Response to Amendment*

1. The Examiner has carefully considered Applicant's remarks dated 07/20/05. Applicant's arguments with respect to claims 1-9 and 15-17 have been considered but are moot in view of the new ground(s) of rejection. All previously made rejections are now withdrawn.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-9 and 15-17 and are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4814224 issued to Geibel et al.

4. Geibel et al disclose fiber reinforced thermoplastic composites, wherein the thermoplastic matrix is a poly(arylene sulfide). Said composites are used in industries which requires excellent thermal properties such as heat distortion (abstract). In column 1, lines 52 the instant patent uses poly(phenylene sulfide ketone) as the preferred embodiment. In columns 3 and 4 patentee discloses that the fiber reinforcement can be selected from a layer of loose fibers, randomly oriented, or a layer of fibers in mat form, or a layer of resin-impregnated, optionally unidirectionally oriented, fibers. The layer of a fibrous reinforcing material is preferably provided in the form of woven fiber mat, chopped fiber mat, continuous strand mat or non-woven fiber mat, the most preferred being chopped fiber mat or continuous strand mat. The mats are composed of fibers of glass, carbon, aramid

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(aromatic polyamide), or metal or mixtures thereof. Also used are mats composed of fibers from fiber-forming inorganic materials such as beryllia, magnesia, alumina, silica, zirconia, thoria, boron nitride, boron carbide, silicon carbide and alumino-silicate and mixtures thereof. The preferred fiber mats comprise fibers of glass, carbon, aramid or mixtures thereof. In a further preferred embodiment the fibers are glass or carbon. In one embodiment the carbon fibers are in the form of a chopped fiber mat having a weight of from one to about 5 ounces per square yard and in a second embodiment the glass fibers are in the form of a continuous strand mat.

With regard to Claims 15 -17, the Examiner takes the position that these limitations are intended use and that any skilled artisan would have found it obvious to have used the composite of Geibel et al, within a filter, electrode or fuel cell, motivated by the reasoned expectation of having a composite which as excellent heat distortion properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ms. Arti Singh whose telephone number is 571-272-1483. The examiner can normally be reached on M-F 9-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A handwritten signature in black ink, consisting of stylized, overlapping loops and a long horizontal stroke extending to the right.

Ms. Arti Singh  
Primary Examiner  
Art Unit 1771

Ars 10/03/05